Idaho Content Standards
Mathematics Concepts And Vocabulary Grade 8

***This word list is not to be taught to students. The list is only reflective of concepts that students may encounter in classroom or state assessments.**

***The words in this list are intended to match the language of instruction to the language of assessment.**

Students are expected to know and apply VOCABULARY from previous grades.

Words in italics indicate that these words may be new for this grade level.

Standard 1: Number and Operation

absolute value
add
addend
base
billion
billionth
budget
calculator
cent
change (money)
collection
combination
commission
compare
composite
computation
computer
conjecture
consecutive
conversion
cube
cubed
decimal
decrease
degree
denominator
difference
digit
dime
discount
divide
dividend
divisor
dollar
double
equivalent
estimate
estimation
evaluate
even number
expanded form
expanded notation
exponent
exponential form
factor
fifth
fourth
formula
fraction
gain
Greatest Common Factor (GCF)
half
half dollar
hundred
hundred thousand
hundredth
improper fraction
increase
infinite
integer
irrational numbers
least common denominator
Least Common Multiple (LCM)
loss
lowest terms
magnitude
million
millionth

mixed number
multiple
multiply
natural number
negative number
nickel
number line
numeral
numerator
numerical expression
odd number
operation
opposite
order
order of operations
overestimate
parenthesis
penny
percent
pi (π)
place value
positive number
predict
prime
prime factorization
product
profit
proper fraction
quarter
quotient
rational number
real number
reasonable
reciprocal
regroup (borrow, carry)
remainder
repeating decimal
rounding
sales tax
scientific notation
sequence
set
simplify
sixteenth
solve
square
square unit
squared
standard form
subtract
sum
ten thousand
tenth
third
thousand
thousandth
total
triple
twice
underestimate
Venn diagram
whole number

Standard 2: Concepts and Principles of Measurement

area
calendar
capacity
Celsius
centi-
centimeter
century
change
circle
circumference
compass (circle)
convert
conversion
cup
customary
cylinder
decade
degree
diagram
diameter
digital
dimensional analysis
distance
elapsed time
estimation
Fahrenheit

foot
formula
gallon
gram
half hour
height
hour
hour hand
inch
kilo-
kilogram
kilometer
length
liter
measurement
meter
metric
midpoint
mile
milli-
milliliter
millimeter
minute
minute hand
ounce
parallelogram
per
perimeter
pi (π)
pint
polygon
pound
proportion
protractor
quadrilateral
quart
quarter
quarter hour
radius
rate
ratio
ratio (map)
rectangle
rectangular prism
ruler
scale (map)
semi-
square
surface area
temperature
thermometer
time
ton
triangle
unit
unit rate
volume
weight
width
yard

Standard 3: Concepts and Language of Algebra and Functions

algebra
algebraic equation
algebraic expression
associative property
change
commutative property
data
dependent
distributive property
equal
equal sign
equal to
equation
expression
factor
function
graph
graphical representation
greater than
identity property
improper fraction
independent
inequality
input
inverse operation
inverse property
length
less than

linear equation
linear function
manipulative
mathematical model
mathematical relationship
measure
more than
negative relationship
not equal
notation
numeric expression
number sentence
order or operations
pattern
pictorial representation
positive relationship
proper fraction
properties
quantity
rational number
relation
relationship
rule
sequence
simplify
solution
solve
substitution
substitution property
symbol
table
unknown
unknown number
value
variable
zero property

Standard 4: Concepts and Principles of Geometry

acute angle
adjacent
angle
approximate
area
attribute
base
capacity
circle
circle graph (pie chart)
complimentary
cone
congruent
coordinate plane
coordinate points
coordinates
cube
cylinder
diagonal
equilateral triangle
face
figure
geometry
geometric
hexagon
hypotenuse
horizontal
intersecting
isosceles triangle
legs of right triangle
line
line of symmetry
line segment
line symmetry
number line
obtuse angle
octagon
ordered pair
origin
parallel
parallelogram
pentagon
perimeter
perpendicular
plane
plane figure
point
point of origin
polygon
polyhedra
prism
pyramid

quadrant
quadrilateral
ray
rectangle
rectangular prism
reflection
regular
rhombus
right angle
right triangle
rotation
scalene triangle
scale drawing
scaling
shape
side
similar
spatial relationship
sphere
square
straight angle
supplementary
surface area
symmetrical
symmetry
three dimensional
translation
trapezoid
triangle
two dimensional
vertex
vertical
volume

Standard 5: Data Analysis, Probability, and Statistics

average
axes labels
axes scales
bar graph
broken line graph
certain
chart
circle graph
clusters
column
data
display
distribution of data
equally likely outcome
event
experiment
experimental probability
fraction notation
frequency
frequency table
gaps
graph
high probability
histogram
impossible
interpretation
label
line graph
line plot
low probability
median
mean
mode
order
outcome
pictograph
pie graph
population
prediction
probability
random
range
row
sample
scatter plot
simulation
statistical experiment
statistics
stem-and-leaf plot
survey
table
tally mark
theoretical probability
title